User manual

Tavara Balance

CE

Van Raam BV
Aaltenseweg 56
7051 CM Varsseveld
Netherlands

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Conformity

Van Raam declares as manufacturer that the Tavara Balance bicycle has been produced in accordance with the 93/42/EEG guidelines.

Introduction

This user manual gives important and necessary information about the use of your bicycle. We ask you to go through the manual thoroughly before using the bicycle.

READ THOROUGHLY!

Delivery

- bicycle with possible packaging
- user manuals (s)
- possible charger (s), depending on options

Intended usage

The bicycle is designed for normal use on level and solid ground. The usual bicycle caution should always be taken into consideration. At the same time all safety instructions as described in this manual should be complied with explicitly. Also the local traffic rules should always be complied with.

All other use, including damage or physical injuries due to this, are not the manufacturer's responsibility.

Safety measures

- Ensure the bicycle is in good condition each time before using it.
- Check before **each** ride that the brakes are in order.
- Check the lights and reflectors.
- Regularly check whether all screw joints are tight.
- Regularly check whether the wheels, the handlebars and the saddle are secure.
- Make sure there is sufficient air in the tyres.
- Only use the bicycle on a **solid and level surface**.
- Make sure that wide trousers or lose hanging clothing don't get caught in the chain, spokes or pedals.
- Do not use a pressure washer or a steam cleaner for the cleaning of the bicycle.

Load
The maximum load should not be exceeded. See information in the index of technical details on page 16. By permitted load we mean the total load, including the load on the luggage rack.

Make sure that the permitted load on the luggage rack is not exceeded.

Damaged or worn out parts
The replacement and repair of parts (frame, forks, illumination, brakes, drive mechanism and the handle bars) should **always** be performed by a dealer. If not, the guarantee ceases to be valid and you will be personally responsible in the event of possible damage.

Specific safety parts should **always** be replaced by new parts!

Delivery inspection

Check the delivery immediately after receiving it.
In the event of damage or incomplete delivery we ask you to contact your dealer immediately.

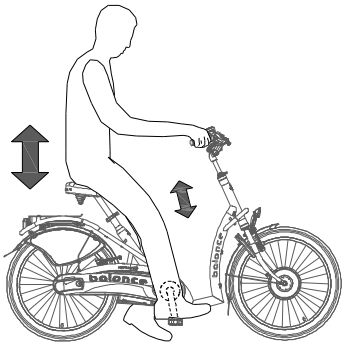
Adjustment of the bicycle

Before using the bicycle, adjust it to the measurements of the cyclist. This is of great importance, especially the saddle and the handlebars.

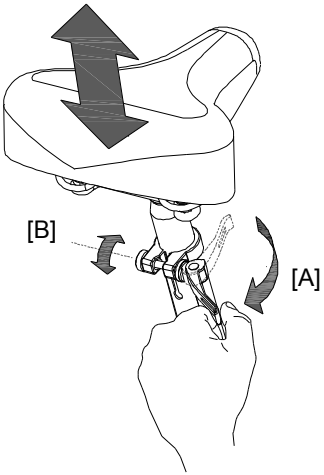
If an optimal adjustment of the bicycle, as defined in the instructions, is not possible, you can contact your dealer for a fitting solution.

The brakes are correctly adjusted as standard and can only be adjusted by the dealer during periodic maintenance.

Saddle height
When the cyclist is sitting on the bicycle and can put a foot on the pedal in the lowest position, the saddle height is correct. Adjust the saddle height in such a way that the leg is stretched but relaxed in that position.



To adjust the saddle:
1. Open the quick-clamp [A].
2. Slide the saddle to the correct height.
3. Close the quick-clamp.

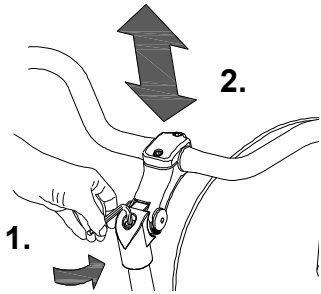


Make sure clothing cannot get caught in the clamp!

If the clamp closes too easily, the clamping force is too low. In this case, open the clamp and tighten the nut (B) a bit more. If a lot of force is necessary to close the clamp, the nut should be loosened slightly.

Do not pull out the saddle pin **further** than the marking. The tube will not go into the shank deep enough and will risk coming off. This can lead to serious injuries.

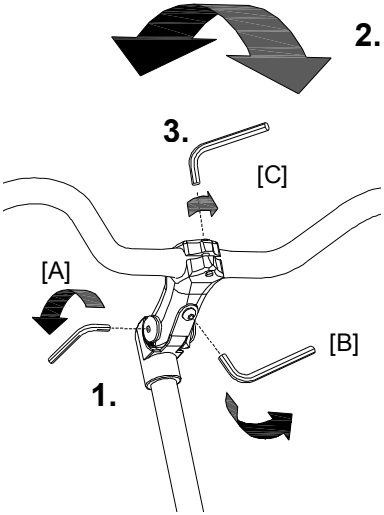
Handle bar height
The height of the handle bars affects the comfort of the ride. It determines the pressure on the hands and the position of the back. Determine your own most comfortable height by using the bike.



To adjust the handle bars:
1. Slightly loosen the screw by using an Allen key.
2. Slide the handle bars to the correct height and tighten the screw very firmly again.

> Do **not** pull out the handle bars **further** than the mark. Otherwise the tube will not be deep enough in the shaft and will risk coming off, which can lead to serious injuries.

Position handle bars
You can tilt the handle bars. This influences the distance from the handle bars to the upper body. Determine your own most comfortable position by using the bike.

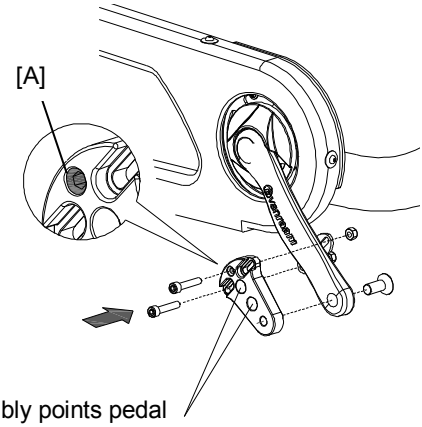


To tilt the handle bars:
1. Slightly loosen the screws (A) and (B) with an Allen key.
2. Put the handle bars in the desired position and then tighten the screws considerably.
3. Slightly loosen screw (C) with an Allen key, put the handle bars in the correct (horizontal) position and then tighten the screw again.

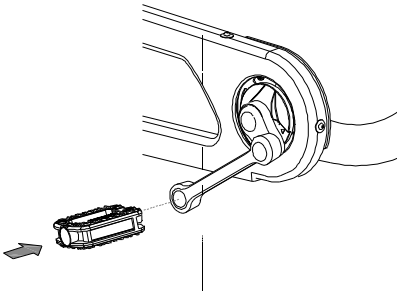
Accessories

Depending on your order, you can use the accessories as described below.

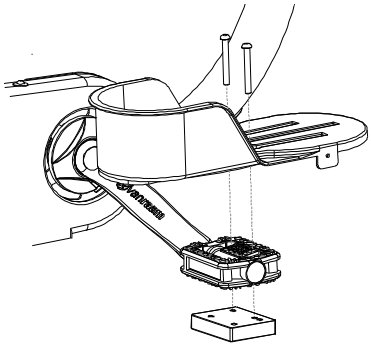
Crank shortener
The crank shortener is fitted to the crank, as illustrated. The pedal can then be fitted into the crank shortener at two positions.
With the socketed screw (A) the crank shortener should be aligned with the crank.



Eccentric crank
The bicycle can be fitted with an eccentric crank on the left and/or right side.

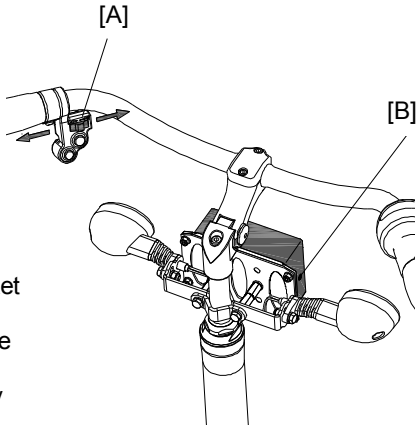


Foot support
The foot support is fitted to the pedal with a balance block.



Flashing light system
To use the flashing lights press the switch (A) to left or right. The green and the red button are not used.

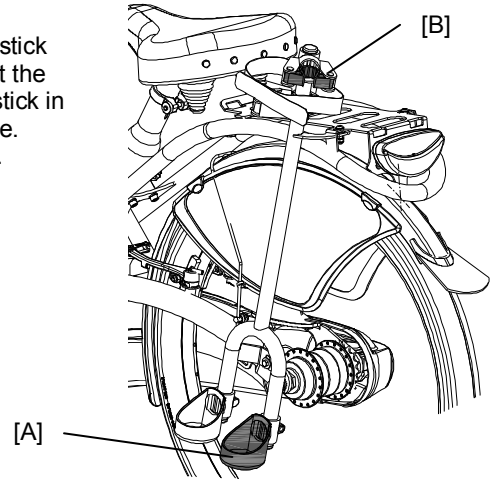
If you want to switch off the flashing light system, put the switch in the middle position.



The battery of the flashing light system is fitted on the front of the handle bars. To charge the battery:

1. Put the charger plug in the connector socket (B) of the battery.
2. Put the charger plug in the wall socket. The red lamp will light up.
3. When the green lamp lights up, the battery is fully charged.
4. Take the plug from the wall socket.
5. Take the plug from the battery.

Walking-stick holder
You can take 2 sticks with you in the stick holder. Place the stick in the holder at the bottom side [A] and then secure the stick in the fastening device [B] at the top side. Always fasten the stick(s) with velcro.

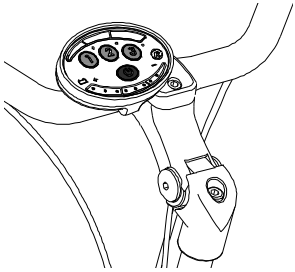


Electric motors
The bicycle can be supplied with an electric motor. There are 2 types available.

Accelerator:
The electric motor is operated by using the accelerator. By using the cockpit you start the motor and determine the power of the motor. This motor accelerates and drives with a speed up to 6 km/h maximum. For more speed the cyclist has to pedal as well.

Pas-Vario:
The electric motor is operated by the cockpit. With this cockpit you switch the engine on/off and you can also determine the power of the motor. This motor only supports the cycling and does not accelerate.

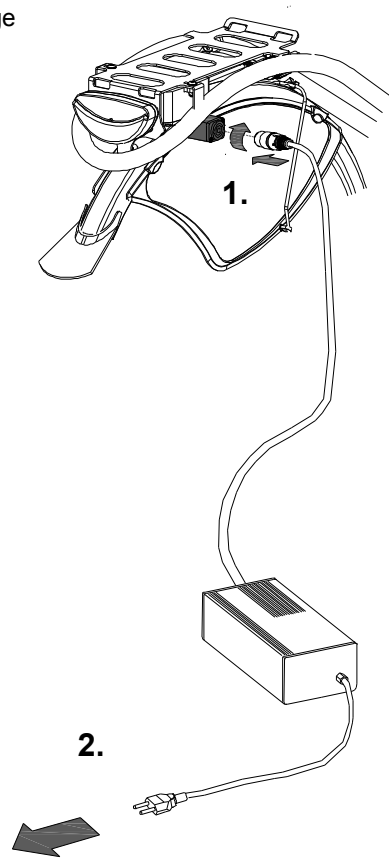
Use of the cockpit (same in both types):
Press one of the buttons, 1, 2 or 3 to start the electric motor. With these buttons you can determine the power of the motor, also during cycling.
With the red button you shut down the system.
If the system is not used, it will automatically shut itself down after a period of time.



When walking backwards with the bicycle, always turn off the motor.

Charging the battery:
The charging point is situated under the luggage rack. To charge the battery:

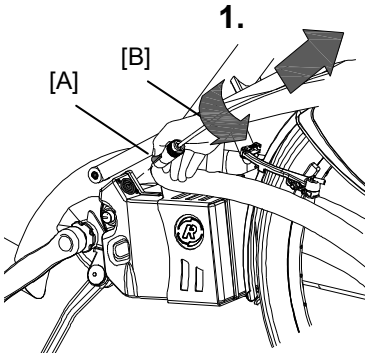
1. Put the charger plug into the charging point under the luggage rack and turn it a quarter around until you can hear it click.
2. Put the charger plug in the wall socket.
3. Depending on the state of the battery, it needs 4 to 12 hours to charge. The battery is completely charged when the green lamp lights up.
4. As soon as the battery is charged, **first** take the plug from the wall socket and then disconnect the charger from the bicycle.

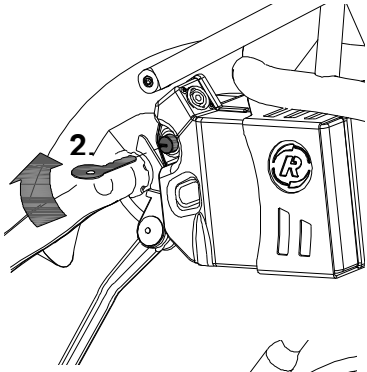


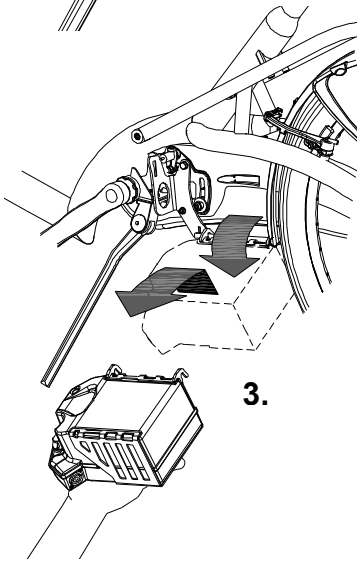
When charging, **first** connect the plug to the charging point on the bicycle and **then** put the plug in the wall socket!
When charged, **first** take the plug from the wall socket and **then** disconnect the charger from the bicycle!

The battery can also be taken from the container and charged somewhere else, indoors for instance. To do this:

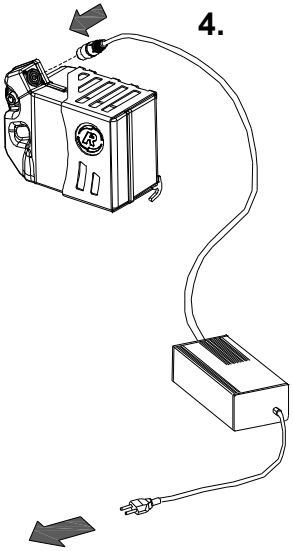
1. Loosen the charge connector from the battery. To loosen the connector: First pull the knob [A] upwards and then turn the connector a quarter round towards you [B]. Then pull the connector from the battery.
2. Undo the lock of the fastening device with the key and open it.
3. Let the battery come ahead and take the battery from the container.







4. Put the battery down and connect the charge connector to the connector of the battery.
5. Put the charger plug in the wall socket. The red light will light up.
6. Depending on the state of the battery it will take 4 to 12 hours to fully charge.
7. As soon as the battery is charged, **first** take the plug from the wall socket.
8. **Then** take the charge connector from the connector of the battery.
9. Place the battery back in the container on the bicycle and lock the fastening devices. Then, connect the charge connector to the connector of the battery.

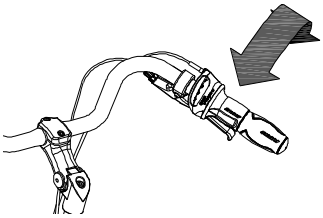


Beware:

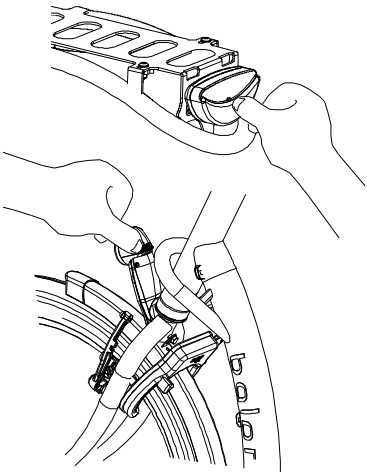
- Charge the battery until the green lamp lights up.
- Never interrupt the charging process.
- For the lifespan of the battery it is better to charge the battery when it is almost discharged.
- It is damaging for the battery if it is not used for more than 2 months. In that case charge the battery every now and then.
- The case of the charger may not be opened by the buyer. In the event of problems go to your dealer!
- Only use the charger in non-humid indoor spaces.
- Below 5 degrees Celsius the charger will not function properly. In that case it is advisable to charge the battery indoors.

Extra accessories are available at your dealer.

Gears
Standard the bicycle has 8 gears. The gears are used by turning the grip. **Do not use the pedals** when turning the grip.

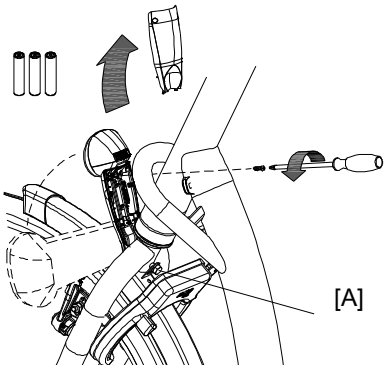


Illumination
The lights work on batteries. Use the buttons to switch the lights on and off. The back light has 2 modes; steady and flashing.



To replace the batteries of the headlight, turn the screws of the cover loose and remove it.
You now can change the 3 AA batteries.

In case you can not easily reach the screws, slightly loosen screw [A] and tilt the light a quarter turn, so the screws are better accessible.



Check before every ride:

- the brakes
- the tyre pressure
- the illumination
- that all parts are secure

Contact your dealer and do not use your bicycle if you identify any irregularities!

As with all mechanical parts, the bicycle is subject to wear and tear and high loading. If a component fails, it can lead to very dangerous situations. This can lead to damage or injuries to the user of the bicycle. Any form of tearing, scratching or changing of colour is an indication that the part should be replaced.

Important safety points for the cyclist

- Go very carefully during the first ride.
- When riding the bicycle hold both hands firmly on the handle bars and feet on the pedals.
- Test the riding style of the bicycle on rough ground at moderate speed. This way the cyclist learns how to react to unexpected movements of the bicycle and the handle bars during use.
- Small obstacles should be cycled over with appropriate speed.
- Obstacles higher than 5 cm should be avoided.

Technical details

Length (cm)	173
Frame height (cm)	52
Boarding height (cm)	23
Front wheel	24“
Back wheel	24“
Weight (kg)	From 19
Max. load luggage rack (kg)	15
Total max. load (kg)	135
Brakes, front	Rim brakes
Brakes, back	Rim brakes

Maintenance and adjustments to be done by owner

Below you can find the instructions for maintenance and adjustments that you can do yourself on a regular basis, which will keep your bicycle in top condition.

Cleaning
The frame of the bicycle can be cleaned with a damp cloth. For areas that are dirtier you can use a mild detergent. The wheels can be cleaned with a damp brush with plastic hairs (not a wire brush!) The seats and the grips can be cleaned with mild soap and water.

Do not use a pressure washer or a steam cleaner!

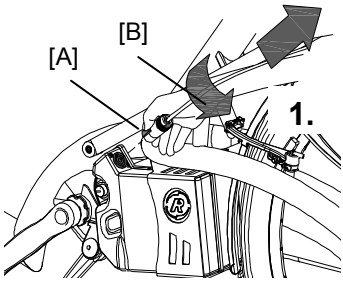
Inspection of the bicycle
After 200 kilometres or after a period of 2 months the bicycle should be inspected. Check the brakes, the illumination and the spokes. Also check the tyre tread depth. This should be at least 1 mm. Worn out tyres or possible faulty parts should be replaced.

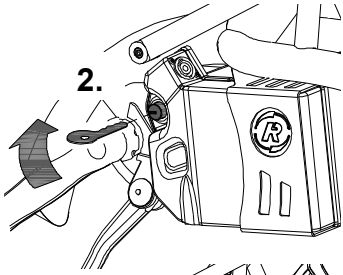
The correct tension of the chain
The chain should not be too tight. It should hang loose. Without effort you should be able to move the chain up and down, half a centimetre approximately.

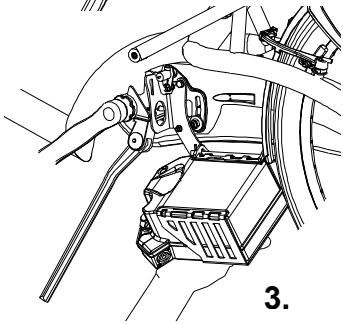
To keep the tension of the chain correct, a special tensioning wheel is fitted by the pedal axis. If you have an electric motor, this tension wheel is behind the battery, and you have to remove the battery first.

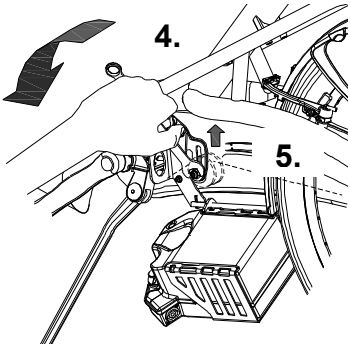
To remove the battery **[optional]**:
1. Loosen the charge connector from the battery. To loosen the connector: First pull the knob [A] upwards and then turn the connector a quarter round towards you [B]. Then pull the connector from the battery.
2. Undo the lock of the fastening device with the key and open it.
3. Let the battery come ahead.

To adjust the tension wheel:
4. Slightly loosen the screw. Hold the nut at the back tight with a socket wrench to stop the screw from slipping.
5. Shift the tensioning wheel in such a way that the chain hangs loose, as described above.
6. Tighten the screw again.









The right lubricant
The chain should be cleaned and maintained at regular intervals (every 3 months approximately). Only use special chain grease or Tevlon spray. This is the only way to make sure that the chain will run smoothly, will stay water resistant and will not rust.
Wipe the chain with a cloth, treat it with grease or spray and remove any excess lubricant with a rag.

Other parts should not be treated with a lubricant.

Checking the rim
Due to the combined action of the brake and the rims, not only the brake lining but also the condition of the rim is important. For this reason the rim should be checked at regular intervals, for example when you inflate the tyres. The presence of fine cracks in the spoke punches or deformation of the rim when there is higher air pressure, indicate more serious wear and tear. In that case the rim should be replaced, because it can lead to loss of brake function or even a crack in the rim, which can lead to all kinds of dangerous consequences.

Repairs and maintenance to be done by dealer

It is recommended that the bicycle has a yearly inspection carried out by the dealer. In the event of technical trouble or faults, the bicycle should be taken to the dealer for repairs **immediately**.

The replacing of safety-related components (especially frame, brakes, illumination, handle bars, front fork and actuation) should be performed by the dealer.

If you still decide you want to replace components yourself, you are responsible for damage or harm due to incorrectly fitted components.
Only use **original** spare parts, which you can buy at you dealer. If requested the dealer will make the necessary information on repair and maintenance available.

Disposal

If you want to dispose your bicycle, contact your dealer. You can also contact the local waste disposal company. They will dispose the bicycle according to the regulations of your town.

Handover/sale to a new owner

When you hand over your bicycle to a new owner it is important that you also hand over all necessary technical documentation so that the new owner can use the bicycle safely.

Guarantee

The guarantee is valid for all faults in the product, which are proven to be caused by material or manufacturing error.

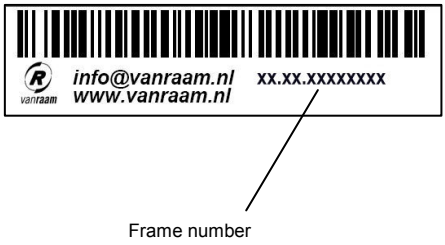
For our bicycles we give a guarantee of 5 years on the frame and the front fork. For the paint, all accessories and other parts (except wear parts) we provide a 2 year guarantee, as legally regulated.

Beware!
The guarantee as well as the product liability in general expires if the instructions stated in this manual are not followed. This is also the case if unauthorized maintenance is carried out or if technical changes or additions are made without permission of Van Raam.

Frame number

The frame number is printed on the sticker. This sticker is located on the frame, see the image below.

Example sticker:



Position of sticker: